



# **HORWICH URBAN DISTRICT COUNCIL.**

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# **ANNUAL REPORT**

OF THE

**MEDICAL OFFICER OF HEALTH,**

**For Year Ended 31st December, 1940.**



**HORWICH:**

**FLETCHER, PRINTER, LONGWORTH ROAD.**





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# Public Health Officers of the Authority.



Medical Officer of Health (part time) and Medical Officer to the Maternity and Child Welfare Centre and Artificial Light Clinics :

J. S. Sewell, M.D., Ch.B., D.P.H., (M.R. San. I.).

Chief Sanitary and Meat Inspector—C. Coop, M.S.I.A.

Additional Sanitary and Meat Inspector—R. Hilton, M.S.I.A.

Health Visitors :

Miss A. Alderson, C.M.B. State Registered Nurse.

Miss H. Bateson, C.M.B. "Health Visitor's Certificate).

Clerks :

Miss P. Turner.

Miss E. Farnworth.



HORWICH URBAN DISTRICT COUNCIL.

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# MEDICAL OFFICER'S REPORT

For the Year Ending 31st, December, 1940.

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*To the Chairman and Members of the*

*Horwich Urban District Council.*

" Gentlemen,

I have the honour to present my 33rd Annual Report for the year ended December 31st, 1940.

The Minister has considered the desirability of the Reports being curtailed during the period of the war, and he is satisfied that while an entire discontinuance of annual reports during this period would not be in the interests of local government, the Report might without disadvantage be materially shortened. Many items which usually appear may be omitted entirely, and those which should be retained may be dealt with as briefly as possible. Except in the case of items for which full particulars are required, the Report should be limited to a record of important alterations, improvements or developments which have taken place during the year.

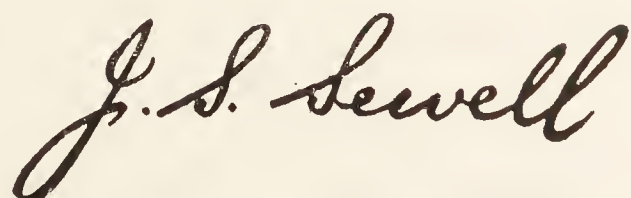
Accordingly the present Report will be considerably shortened as compared with previous years. Full details, however, have been kept of all activities and members requiring further information can obtain it upon application to the Department.

A perusal of the figures in the body of the Report will show that the general health of the inhabitants has been maintained in spite of war conditions.

I am greatly indebted to the Chief Sanitary Inspector, Health Visitors, and my other fellow officials and their staffs for their co-operation.

I am, Gentlemen,

Your obedient servant,

A handwritten signature in dark ink, reading "J. S. Sewell". The signature is written in a cursive style with a large, flowing initial "J" and a long, sweeping underline.

## STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (Acres), 3254.

Population, Census 1931, 15680.      Estimated 1940, 14800.

Number of inhabited houses (end of 1940),  
according to Rate Books, 4900.

Rateable Value, £74,301.

Sum represented by a penny rate, £268.

*Social Conditions*:—There appears to be further improvement in the social conditions.

*Vital Statistics*.—

The population of the Urban District of Horwich for mid 1940 as estimated by the Registrar General is 14800. The rates are calculated on 14800.

	Total.	Males	Females.
Births (legitimate) .....	186	101	85
Births (illegitimate) .....	2	—	2
Total.....	188	101	87

Birth Rate 12·7 per 1,000.

Still Births .....	12	10	2
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Still Birth Rate per 1,000 total births, 60.

Deaths .....	220	122	98
--------------	-----	-----	----

Crude Death Rate 14·8 per 1,000.

Adjusted Death Rate 14·6 per 1,000.

Areal Comparability Factor 0·99.

Deaths from Puerperal and post-abortive sepsis nil

Deaths from other Maternal causes nil.

Death Rate per 1,000 Total (live and still) Births nil.

## Death-rate of infants under 1 year of age :

All infants per 1,000 live births	...	...	...	...	47
Legitimate infants per 1,000 legitimate live births	...				42
Illegitimate infants per 1,000 illegitimate live births	...				500
Deaths from Cancer (all ages)	...	..	...	...	33
Deaths from Measles (all ages)	...	...	...	...	1
Deaths from Whooping Cough (all ages)	...		...	...	—
Deaths from Diarrhoea (under 2 years of age)	...		...	...	—

The following table gives the mean of the 5 years 1935-1939 :

	Per 1,000 of Estimated Population.				Maternal Mortality Rate		Rate of Deaths under One Year per 1,000 Live Births
	Live B.-Rate	Crude D.-Rate	DeathRate from Tuberculosis of respiratory system	Death Rate from Cancer	Per 1,000 Live Births	Per 1,000 Total (Live and Still) Births	
Mean of 5 years 1935-1939	11.5	12.5	0.38	1.22	5.67	5.37	64
Year.							
1939	12.9	13.8	0.33	1.27	5.20	5.00	62
1940	12.7	*14.8	0.20	2.22	nil	nil	47
Increase or decrease in 1940 on 5 years average, 1935-1939 :							
	+1.2	+2.3	-0.18	+1.00	-5.67	-5.37	-17
Previous year :							
	-0.2	+1.0	-0.13	+0.95	-5.20	-5.00	-15

\*1940 adjusted death-rate (comparability factor 0.99) =  
14.6 per 1,000.

The following table gives the number of deaths from the various diseases during the year 1940 :

Causes of Death.	Males.	Females.
ALL CAUSES	122	98
<hr/>		
Typhoid and Paratyphoid Fevers	0	0
Cerebro Spinal Fever ...	0	0
Scarlet Fever ... ..	0	0
Whooping Cough ... ..	0	0
Diphtheria ... ..	0	0
Tuberculosis of respiratory system	2	1
Other forms of Tuberculous	0	1
Syphilitic Diseases ...	1	0
Influenza ... ..	4	1
Measles ... ..	1	0
Acute Poliomyelitis and Polioencephalitis	0	0
Acute Infectious Encephalitis	1	0
Cancer of Buccal Cavity and Oesophagus (M), Uterus (F)	3	1
Cancer of Stomach and Duodenum	3	3
Cancer of Breast ... ..	0	3
Cancer of all other sites ...	14	6
Diabetes ... ..	0	6
Intra-cranial vascular lesions	15	10
Heart Disease ... ..	24	19
Other diseases of Circulatory System	4	0
Bronchitis ... ..	8	9
Pneumonia... ..	7	2
Other Respiratory Diseases	4	1
Ulcer of Stomach or Duodenum	1	0
Diarrhoea under 2 years ...	0	0
Appendicitis ... ..	0	0
Other Digestive Diseases...	2	5
Nephritis ... ..	3	7
Puerperal and Post-Abortive Sepsis	0	0
Other Maternal Causes ...	0	0
Premature Birth ... ..	3	0
Congenital Malformations, Birth Injuries, Infant Diseases	2	2
Suicide ... ..	1	1
Road Traffic accidents ...	0	3
Other violent causes ...	4	6
All other causes ...	15	11



Deaths of infants under 1 year ... ..	7	2
Legitimate... ..	6	2
Illegitimate ... ..	1	0
<hr/>		
Total Live Births ... ..	101	87
Legitimate... ..	101	85
Illegitimate ... ..	0	2
<hr/>		
Total Stillbirths ... ..	10	2
Legitimate... ..	10	2
Illegitimate ... ..	0	0
Population... ..		14,800.

Birth-rates, Civilian Death-rates, } England and Wales, Lon-  
 Analysis of Mortality, Maternal } don, 126 Great Towns, and  
 Death-rates, and Case-rates for certain } 148 Smaller Towns.  
 Infectious Diseases in the year 1940.

(Provisional Figures based on Weekly and Quarterly Returns).

	England and Wales	126 County Boro's and Great Towns including London	148 Smaller Towns (Resident Populations 25,000 to 50,000 at 1931 Census)	London Administrative County
	Rates per 1,000 Population			
Births :				
Live ... ..	14·6	16·0	15·7	13·7
Still ... ..	0·55	0·64	0·55	0·44
Deaths :				
All Causes ... ..	14·3	15·8	12·8	17·8
Typhoid and Paratyphoid fevers } ... ..	0·00	0·00	0·00	0·00
Smallpox ... ..	—	—	—	—
Measles... ..	0·02	0·02	0·02	0·01
Scarlet fever ... ..	0·00	0·00	0·00	0·00
Whooping Cough ... ..	0·02	0·02	0·02	0·00
Diphtheria ... ..	0·06	0·07	0·05	0·01
Influenza ... ..	0·32	0·29	0·30	0·18
Notifications :				
Smallpox ... ..	0·00	—	—	—
Scarlet fever ... ..	1·63	1·53	1·57	0·82
Diphtheria ... ..	1·16	1·29	1·21	0·61
Enteric fever ... ..	0·07	0·06	0·10	0·06
Erysipelas ... ..	0·33	0·36	0·30	0·35
Pneumonia ... ..	1·20	1·37	1·00	0·87
Cerebro Spinal fever ... ..	0·32	0·33	0·29	0·28
Whooping Cough ... ..	1·34	1·29	1·35	0·22
Measles... ..	10·24	9·23	9·99	1·78
	Rates per 1000 Live Births			
Deaths under 1 year of age ...	55	61	54	50
Deaths from Diarrhoea and Enteritis under 2 years of age ...	4·6	5·9	4·4	5·8
	Rates per 1,000 Total Births (i.e. Live and Still)			
Maternal Mortality :				
Puerperal Infection ... ..	0·52	} NOT AVAILABLE		
Others ... ..	1·64			
Total ... ..	2·16			
Notifications .				
Puerperal fever ... ..	} 11·96	13·90	9·73	{ 3·34
Puerperal pyrexia ... ..				

## GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

1. *Nursing in the Home.*—(a) *General.*—No change.  
(b).—*Infectious Diseases.*—No change.
2. *Midwives.*—No change.
3. *Laboratory Facilities.*—No change.
4. *Legislation in Force.*—No change.
5. *Hospitals.*—No change. Townley's hospital is being increasingly used for the treatment of Maternity and Puerperal Fever cases. During the year 38 Maternity cases were admitted to this hospital.
6. *Maternity and Nursing Homes.*—The County Council is the Local Supervising Authority under the Midwives' Acts and Nursing Homes Registration Act, 1927.
7. Apart from the arrangements with the Townley's Hospital there is no provision for unmarried mothers, illegitimate infants and homeless children in the district.
8. *Ambulance facilities.*—These are adequate. 642 cases have been dealt with during the year. Total mileage is 8200.
9. *Clinics and Treatment Centres.*—No change. The Centre in addition to its ordinary activities is still being used as a First Aid Post.

During the year 3 children of school age were referred by the School Medical Officer for Artificial Light Treatment. 35 exposures were given. In addition 18 children between the ages of 0—5 received 185 exposures.

10. *Maternal Mortality.*—Medical Officers of the County Council investigate cases of puerperal fever and maternal deaths. Dr. R. W. Beesley and Dr. J. Scott, of Bolton, act as Consultants in cases of Puerperal Sepsis and Puerperal Pyrexia, also as Consultants at the Ante-natal Clinics. Cases are also referred to the Ante-natal Clinic at Townley's Hospital where X-ray photographs can be taken.

Close co-operation is maintained with the midwives and doctors in the town and notes of the findings at the Centre are sent to them. The Midwives bring or send their cases to the clinic for examination. 63·4 per cent of expectant mothers attended the ante-natal clinic during the year.

11. *Health Visiting of Children, 1 to 5 years.*—This is included under the duties of the two Health Visitors.

12. *Child Life Protection.*—Under the Acts the two Health Visitors have been appointed the executive officers, but at present there are no cases requiring their attention.

13. *Orthopaedic Treatment.*—The County Council hold a monthly Clinic for the prevention, treatment, and after care of crippling conditions. The County nurses follow up the cases during the interval and see that the treatment advised is carried out.

The Horwich Council have an arrangement with the County Council to attend children from 0-5 years of age sent to them. This arrangement includes, if necessary, treatment in Biddulph Hospital.

14. *Ophthalmic Treatment.*—The Council have made arrangements with the County Council's Ophthalmic Clinic for the treatment of cases of eye defect discovered in children under 5 years of age.

## SANITARY CIRCUMSTANCES OF THE AREA.

*Water.*—The sources are Moorland and Pumping Station. The filtration scheme is in operation and continues to give general satisfaction. During the year eight bacteriological examinations of the water were made. Details of the analyses are omitted this year for the sake of brevity. Copies of the Analyses can be inspected in the Department.

*Rivers and Streams.*—No pollution.

*Drainage and Sewerage.*—No important extensions made during the year.

*Closet Accommodation:*—There are 4397 Fresh Water Closets, 10 6 Waste Water Closets, 56 Pail Closets and 13 Privy Middens now existing in the district. During the year, 4 waste water closets have been converted to fresh water closets.

*Public Cleansing.*—During the year, 2115 privies, ashpits and pails, and 257,800 dustbins have been emptied by the Council's workmen, making approximately 5,113 tons of refuse removed.



*Collection and Disposal.*—Dry refuse is collected from dustbins into dustless low loading refuse removal motor vehicles. Refuse is conveyed to Red Moss Tip and disposed of by means of Controlled Tipping. A scheme is in operation for the salvaging of clean waste paper, cardboard, metals, etc.

*Earth closets, privies and cesspools.*—Contents emptied into vehicle specially adapted for the purpose. Contents removed and disposed of on farm land. All earth closets, privies and cesspools after emptying are cleansed and purified with a disinfectant.

*Sanitary Inspections of the Area:*—The following is a classified statement of the number of inspections and re-inspections made during 1940 :

Houses and other premises	...	...	1673
Slaughter Houses	...	...	31
Dairies, Cowsheds, and Milkshops, etc..			17
Shops	...	...	77
Schools	...	...	19
Waterworks	...	...	6
Red Moss Tip	...	...	55
Factories with mechanical power		...	22
Factories without mechanical power		...	48
Infectious Diseases	...	...	50
Market	...	...	66

*Factories and Workshops.*—During the year Factories and Workshops in the district have been visited and the defects found have been remedied. There was no outwork found to be carried on in unwholesome premises.

There have been 116 gullies and 187 water closets flushed and disinfected.

During the year 279 informal notices have been served. 1136 defects or nuisances were found to have been abated, 88 not yet abated. 10 Statutory Notices have been served and the defects abated.

The following is a summary of the abated nuisances and the necessary actions to remedy them :

Damp walls remedied	...	...	...	...	...	...	44
House roofs repaired	...	...	...	...	...	...	84
Repairs to windows	...	...	...	...	...	...	68
Defective spouting and rain water pipes repaired	...	...	...	...	...	...	52
New water closets provided	...	...	...	...	...	...	4
New dust bins provided	...	...	...	...	...	...	111
Houses cleansed	...	...	...	...	...	...	34
House walls re-plastered...	...	...	...	...	...	...	46
House doors and floors repaired...	...	...	...	...	...	...	78
Repairs to drains, closets, etc.	...	..	...	...	...	...	290
Yards repaired	...	...	...	...	...	...	11
General repairs (fireranges, etc.)...	...	...	...	...	...	...	314

*Shops and Offices.*—Adequate ventilation and a reasonable temperature have been insisted on. Exemption certificates have been granted where it has been found impracticable to provide sanitary conveniences.

*Camping Sites.*—There are no camping sites in the district.

*Smoke Abatement.*—No action has been taken.

*Swimming Baths and Pools.*—There are no public or privately owned swimming baths or pools in the district.

*Eradication of Bed Bugs.*—During the year no Council houses were found to be bug infested. Before tenants are removed to Council houses their belongings are inspected.

One privately owned house was found to be infested and after removing the wooden skirtings and mouldings the house was fumigated with Sulphur followed by intensive spraying with an insecticide (Clymax).

All houses visited are examined and general cleanliness insisted upon.

*Premises and Occupations which can be controlled by  
Byelaws and Regulations.*—

*Bakehouses* :—29 in number ; condition satisfactory.

*Slaughter Houses* :—Total 2 ; 2 licensed.

Supervision is also maintained over Fish and Chip, Ice Cream and other premises where Food is prepared. These premises have been registered under the Lancashire County Council (Rivers Board and General Powers) Act, 1938.

*Other Sanitary Conditions requiring Notice.*—Abolition of waste water closets.

*Schools* :—Continue in a sanitary condition. The type of closet accommodation is under consideration. Co-operation is closely maintained with the School Medical Officer, School Attendance Officer and the teaching staff.

*Rag Flock Acts, 1911 and 1928.*—There are no premises on which rag flock is manufactured, used or sold.

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## HOUSING.

Number of new houses erected during the year -

(a)	Total (including numbers given separately under b)	...	...	...	...	...	—
(i)	By the Local Authority	...	...	...	...	...	—
(ii)	By other Local Authorities	...	...	...	...	...	—
(iii)	By other bodies and persons	...	...	...	...	...	—
(b)	With State assistance under the Housing Acts.						
(i)	By the Local Authority	...	...	...	...	...	—
(ii)	By other bodies or persons	...	...	...	...	...	—

The general housing conditions in the district remain fair. The principal defects found are dampness of walls, defective roofs etc.

There is a difficulty in obtaining material and labour for repairs.

Since the war a larger number of families have moved into the district and are living in rooms.



## INSPECTION AND SUPERVISION OF FOOD.

*Milk Supply.*—There are 26 cowkeepers within the district and approximately 428 cows.

There are 37 dairymen or milk purveyors (other than cowkeepers).

The Veterinary Inspector of the Ministry of Agriculture and Fisheries examines the cows clinically every quarter. Samples of milk are taken to be examined for tubercle bacilli.

Systematic inspection of the farms, dairies and milkshops is carried out in order to fulfil the requirements of the Milk and Dairies (Consolidation) Act 1915, the Milk and Dairies (Amendment) Act 1922, and the Milk and Dairies Order, 1926.

*Meat and other Foods.*—There are 2 licensed slaughterhouses in the district.

During 1940 the total weight of carcasses and parts condemned in consequence of Tuberculosis and other diseases is 779lbs. In addition 89lbs of bacon were condemned as unwholesome. For reasons of economy the detailed tables have been omitted, but records have been kept. Strict observations are kept on all shops, stalls and premises where food is prepared and sold.

*Adulteration, etc.*—No action taken.

*Nutrition.*—The importance of proper nutrition is stressed at the Maternity and Child Welfare clinics.

*Shell-Fish.*—There are no shell-fish beds or layings in the district. Mussels from Warren Point, Ireland, and from the Cleansing Tank, Ribble Estuary, are marketed in the district.

## PREVALENCE OF, AND CONTROL OVER INFECTIOUS DISEASES.

18 Diphtheria cases occurred during the year. Our chief difficulty has again been the tracing of mild and missed cases. Supervision has been maintained over cases discharged from hospital with the view of avoiding "return" cases.

Since the advent of 1941 Immunization Clinics have been instituted.

A supply of Diphtheria Antitoxin is kept at the Public Hall and is supplied free of charge to medical practitioners.



During the year 13 cases of Scarlet Fever and 7 cases of Paratyphoid B were notified. The latter were thought to be due to infected bread.

Pathological and bacteriological specimens are submitted to the pathological laboratory of the University of Manchester for examination. During 1940, 34 swabs were examined for Diphtheria, 10 of which were positive. 9 examinations of Sputa were made for Tubercle Bacilli, and 2 were reported positive. 7 specimens of faeces for organisms of the Typhoid group were examined and 4 were reported positive.

No use has yet been made of the Schick and Dick tests.

No Vaccinations have been performed under the Public Health (Smallpox Prevention) Regulations 1917.

Measles and Whooping Cough are now compulsorily notifiable. These diseases were previously notifiable under a local order.

There are no arrangements in the district for the cleansing and disinfection of verminous persons and their belongings. Premises are disinfected with Formaldehyde and Sulphur. Infected articles and bedding are taken to Fall Birch Hospital for steam disinfection.

Notifiable Diseases (other than Tuberculosis) during the year 1940.

Disease	Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	65 and upwards	At all ages	Cases admitted to Hospital	Total Deaths
Small Pox .....															
Scarlet Fever.....					1	3	3	2	4				13	7	
Diphtheria .....		1		2	1	4	5	3	2				18	18	
Enteric Fever .....							1	4	2				7	6	
Puerperal Pyrexia.....									1				1	1	
Pneumonia.....	2	4	1	1		4	1	1	3		6	2	25		9
Erysipelas .....										1	4	1	6	2	
Ophthalmia Neon.....	1												1	1	
Encephalitis Lethargica...															1
Cerebro Spinal Fever .....									1				1	1	
Acute Polio-encephalitis...															
Acute Poliomyelitis .....															
Chicken Pox .....		1	2		1	11							15		
Measles, excluding German Measles .....	2	17	21	21	33	172	43	11	2	2			324		1
Whooping Cough .....		1	1			1							3		
German Measles.....															
Totals .....	5	24	25	24	36	195	53	21	15	3	10	3	414	36	11

### *Prevention of Blindness.*

The health visitors give careful attention to all cases of Ophthalmia Neonatorum and themselves carry out the treatment.

### *Ophthalmia Neonatorum.*

Notified.	Treated		Vision Unimpaired.	Vision Impaired.	Total Blindness.	Deaths
	at Home.	in Hospital.				
1	0	1	1	0	0	0

### *Tuberculosis.*

New Cases and Mortality during 1940.

Notifications :

#### *Pulmonary Tuberculosis.*

Sex.	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upw'ds.	Total
Males						1	1		3			5
Females							1	1				2

#### *Non-Pulmonary Tuberculosis.*

Males			2				1			1		4
Females		1	1	2		1				1	1	7

Deaths from Tuberculosis :

#### *Pulmonary Tuberculosis.*

Males									2			2
Females							1					1

#### *Non-Pulmonary Tuberculosis.*

Males												
Females						1						1

The Tuberculous deaths were all notified cases.

No action has been required under the Public Health (Prevention of Tuberculosis) Regulations 1925, and under Section 172 of the Public Health Act 1936.

The notification of Tuberculosis in this area is efficient. It is the general practice to refer all doubtful cases to the Tuberculosis Officers.

## MATERNITY AND CHILD WELFARE.

The ante-natal activities continue. There is now very little difficulty in inducing the mothers to take advantage of the facilities provided. 63·4% of all mothers attended the Clinic during the year. The following conditions found deserve notice :

Albuminuria and High Blood Pressure ...	15
Cæsarian Section ... ..	1
Dental decay ... ..	6
Discharges ... ..	4
Hæmorrhages ... ..	1
Multiple Pregnancy ... ..	2
Heart Disease... ..	3
Miscarriages in the past ... ..	3
Malpresentations ... ..	3
Pelvic Malformations ... ..	2
Previous Abnormal Labour ... ..	16
Primipara ... ..	51
Severe Anæmia ... ..	1
Varicose Veins ... ..	1

The following table gives a summary of the work carried out in the Maternity and Child Welfare Department:

## 1. Number of visits paid during the year by Health Visitors :

(a) To expectant mothers ... ..	First visits	20
	Total visits	78

(b) To children under 1 year of age ... ..	First visits	198
	Total visits	1743

(c) To children between the ages of 1 and 5 years... ..	Total visits	1294
---	--------------	------

## 2. (a) Total number of attendances at the Centre during the year :

(i) By children under 1 year of age ... ..	2614
(ii) By children between the ages of 1 & 5 yrs. ... ..	1051

## (b) Total number of children who attended at the Centre for the first time during the year :

(i) Children under 1 year of age ... ..	164
(ii) Children between the ages of 1 and 5 years ... ..	17



- (c) Total number of children who attended at the Centres during the year and who, at the end of the year were
- |                         |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|
| (i) Under 1 year of age | ... | ... | ... | ... | 137 |
| (ii) Over 1 year of age | ... | ... | ... | ... | 136 |
- (d) Percentage of total notified live births represented by the number in (b) (i)
- |     |     |     |     |      |
|-----|-----|-----|-----|------|
| ... | ... | ... | ... | 83.2 |
|-----|-----|-----|-----|------|

### 3. Ante-natal clinics:

- (a) Total number of attendances by expectant mothers during the year
- |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | ... | 498 |
|-----|-----|-----|-----|-----|-----|
- (b) Total number of expectant mothers who attended at the clinic during the year
- |     |     |     |     |     |
|-----|-----|-----|-----|-----|
| ... | ... | ... | ... | 125 |
|-----|-----|-----|-----|-----|
- (c) Percentage of total notified births represented by the number in (b)
- |     |     |     |     |      |
|-----|-----|-----|-----|------|
| ... | ... | ... | ... | 63.4 |
|-----|-----|-----|-----|------|

### 4. Sunlight Clinic :

- (a) Children between the ages of 0 and 5 given exposures 18
- (b) Total number of exposures
- |     |     |     |     |
|-----|-----|-----|-----|
| ... | ... | ... | 185 |
|-----|-----|-----|-----|
- (c) Total number of school children given exposures 3
- (d) Total number of exposures given
- |     |     |    |
|-----|-----|----|
| ... | ... | 35 |
|-----|-----|----|

				Mothers.	Children.
5.	Cases referred to Dental Clinic			...	7
	„	„	Ophthalmic Clinic..	—	9
	„	„	Orthopædic Clinic...	—	5





